

Annex C. XML DTD for Web-oriented Topic Maps (normative)

The following DTD must be used for the interchange of topic map information in environments that are limited to the processing of XML syntax (i.e., that cannot process SGML) and that can only support addressing expressions that are Uniform Resource Identifiers (URIs) as defined by the Internet Engineering Task Force.

```

<!ELEMENT topicMap
  ( topic | association | mergeMap )*
>
<!ATTLIST topicMap
  id          ID      #IMPLIED
  xmlns       CDATA   #FIXED 'http://www.topicmaps.org/xtm/1.0/'
  xmlns:xlink CDATA   #FIXED 'http://www.w3.org/1999/xlink'
  xml:base    CDATA   #IMPLIED
>

<!ELEMENT topic
  ( instanceOf*, subjectIdentity?, ( baseName | occurrence )* )
>
<!ATTLIST topic
  id          ID      #REQUIRED
>

<!ELEMENT instanceOf ( topicRef | subjectIndicatorRef ) >
<!ATTLIST instanceOf
  id          ID      #IMPLIED
>

<!ELEMENT subjectIdentity
  ( resourceRef?, ( topicRef | subjectIndicatorRef )* )
>
<!ATTLIST subjectIdentity
  id          ID      #IMPLIED
>

<!ELEMENT topicRef EMPTY >
<!ATTLIST topicRef
  id          ID      #IMPLIED
  xlink:type NMTOKEN #FIXED 'simple'
  xlink:href  CDATA   #REQUIRED
>

<!ELEMENT subjectIndicatorRef EMPTY >
<!ATTLIST subjectIndicatorRef
  id          ID      #IMPLIED
  xlink:type NMTOKEN #FIXED 'simple'
  xlink:href  CDATA   #REQUIRED
>

<!ELEMENT baseName ( scope?, baseNameString, variant* ) >
<!ATTLIST baseName
  id          ID      #IMPLIED
>

<!ELEMENT baseNameString ( #PCDATA ) >
<!ATTLIST baseNameString
  id          ID      #IMPLIED
>
```

```
<!ELEMENT variant  ( parameters, variantName?, variant* ) >
<!ATTLIST variant
      id          ID          #IMPLIED
>

<!ELEMENT variantName ( resourceRef | resourceData ) >
<!ATTLIST variantName
      id          ID          #IMPLIED
>

<!ELEMENT parameters ( topicRef | subjectIndicatorRef )+ >
<!ATTLIST parameters
      id          ID          #IMPLIED
>

<!ELEMENT occurrence
      ( instanceOf?, scope?, ( resourceRef | resourceData ) )
>

<!ATTLIST occurrence
      id          ID          #IMPLIED
>

<!ELEMENT resourceRef EMPTY >
<!ATTLIST resourceRef
      id          ID          #IMPLIED
      xlink:type NMOKEN      #FIXED 'simple'
      xlink:href  CDATA       #REQUIRED
>

<!ELEMENT resourceData ( #PCDATA ) >
<!ATTLIST resourceData
      id          ID          #IMPLIED
>

<!ELEMENT association
      ( instanceOf?, scope?, member+ )
>

<!ATTLIST association
      id          ID          #IMPLIED
>

<!ELEMENT member
      ( roleSpec?, ( topicRef | resourceRef | subjectIndicatorRef )* )
>
<!ATTLIST member
      id          ID          #IMPLIED
>

<!ELEMENT roleSpec ( topicRef | subjectIndicatorRef ) >
<!ATTLIST roleSpec
      id          ID          #IMPLIED
>

<!ELEMENT scope  ( topicRef | resourceRef | subjectIndicatorRef )+ >
<!ATTLIST scope
      id          ID          #IMPLIED
>

<!ELEMENT mergeMap ( topicRef | resourceRef | subjectIndicatorRef )* >
<!ATTLIST mergeMap
      id          ID          #IMPLIED
      xlink:type NMOKEN      #FIXED 'simple'
      xlink:href  CDATA       #REQUIRED
>
```

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```

<!ELEMENT topicMap
  ( topic | association | mergeMap )*
>
<!ATTLIST topicMap
  id          ID      #IMPLIED
  xmlns       CDATA   #FIXED 'http://www.topicmaps.org/xtm/1.0/'
  xmlns:xlink CDATA   #FIXED 'http://www.w3.org/1999/xlink'
  xml:base    CDATA   #IMPLIED
>

<!ELEMENT topic
  ( instanceOf*, subjectIdentity?, ( baseName | occurrence )* )
>
<!ATTLIST topic
  id          ID      #REQUIRED
>

<!ELEMENT instanceOf ( topicRef | subjectIndicatorRef ) >
<!ATTLIST instanceOf
  id          ID      #IMPLIED
>

<!ELEMENT subjectIdentity
  ( resourceRef?, ( topicRef | subjectIndicatorRef )* )
>
<!ATTLIST subjectIdentity
  id          ID      #IMPLIED
>

<!ELEMENT topicRef EMPTY >
<!ATTLIST topicRef
  id          ID      #IMPLIED
  xlink:type NMTOKEN #FIXED 'simple'
  xlink:href  CDATA   #REQUIRED
>

<!ELEMENT subjectIndicatorRef EMPTY >
<!ATTLIST subjectIndicatorRef
  id          ID      #IMPLIED
  xlink:type NMTOKEN #FIXED 'simple'
  xlink:href  CDATA   #REQUIRED
>

<!ELEMENT baseName ( scope?, baseNameString, variant* ) >
<!ATTLIST baseName
  id          ID      #IMPLIED
>

<!ELEMENT baseNameString ( #PCDATA ) >
<!ATTLIST baseNameString
  id          ID      #IMPLIED
>
```

```
<!ELEMENT variant  ( parameters, variantName?, variant* ) >
<!ATTLIST variant
      id          ID          #IMPLIED
>

<!ELEMENT variantName ( resourceRef | resourceData ) >
<!ATTLIST variantName
      id          ID          #IMPLIED
>

<!ELEMENT parameters ( topicRef | subjectIndicatorRef )+ >
<!ATTLIST parameters
      id          ID          #IMPLIED
>

<!ELEMENT occurrence
      ( instanceOf?, scope?, ( resourceRef | resourceData ) )
>

<!ATTLIST occurrence
      id          ID          #IMPLIED
>

<!ELEMENT resourceRef EMPTY >
<!ATTLIST resourceRef
      id          ID          #IMPLIED
      xlink:type NMTOKEN    #FIXED 'simple'
      xlink:href  CDATA       #REQUIRED
>

<!ELEMENT resourceData ( #PCDATA ) >
<!ATTLIST resourceData
      id          ID          #IMPLIED
>

<!ELEMENT association
      ( instanceOf?, scope?, member+ )
>

<!ATTLIST association
      id          ID          #IMPLIED
>

<!ELEMENT member
      ( roleSpec?, ( topicRef | resourceRef | subjectIndicatorRef )* )
>
<!ATTLIST member
      id          ID          #IMPLIED
>

<!ELEMENT roleSpec ( topicRef | subjectIndicatorRef ) >
<!ATTLIST roleSpec
      id          ID          #IMPLIED
>

<!ELEMENT scope  ( topicRef | resourceRef | subjectIndicatorRef )+ >
<!ATTLIST scope
      id          ID          #IMPLIED
>

<!ELEMENT mergeMap ( topicRef | resourceRef | subjectIndicatorRef )* >
<!ATTLIST mergeMap
      id          ID          #IMPLIED
      xlink:type NMTOKEN    #FIXED 'simple'
      xlink:href  CDATA       #REQUIRED
>
```